MICHAEL DUTEAU

meduteauii@gmail.com • (774) 314-5073 • Webster, MA 01570 • https://github.com/m-duteau

SKILLS

Programming Languages:
Java, C++, C, Python, HTML, CSS, JavaScript

Database Technology:
SQL, MongoDB, Amazon DynamoDB

Tools:
Microsoft Visual Studio, Visual Studio Code, GitHub, Amazon Web Services (AWS), Eclipse IDE, Node.js, Express.js, AngularJS

Data Analysis:
NumPy, Matplotlib, Pandas

Methodologies:
Software Development Lifecycle (SDLC), Agile

EDUCATION

B.S. in Computer Science Graduated: Aug 2024
Southern New Hampshire University | Manchester, NH
Software Engineering Concentration

GPA: 3.89

HONORS & AWARDS

President's List
Southern New Hampshire University
January 2022 - August 2024

ACADEMIC PROJECTS

Full Stack Application using MEAN Jun 2024
https://github.com/m-duteau/CS465-fullstack
- Converted a static HTML web page into a Single Page Application by implementing Angular and MongoDB.
- Designed a backend component enabling administrative users to edit database entries.
- Implemented API endpoints (GET/PUT/POST/DELETE) in order to facilitate better manipulation of the database and its contents.

Dashboard with CRUD Module using Python and MongoDB Dec 2023
https://github.com/m-duteau/Grazioso-Salvare-Dashboard-w-CRUD-Module
- Developed Create, Read, Update, and Delete functions to provide management of a collection using a data set containing 10,000 entries provided by Austin Animal Shelter by utilizing Python, MongoDB, and Jupyter Notebook.
- Developed an HTML-based functional dashboard displaying database contents, with filters for animals' sex, breed, and age tailored for specific rescue training needs.
- Constructed a histogram using Python's Pandas to show dog quantities categorized by breed and created a geolocation map displaying selected animal locations.

Binary Search Tree using C++ Aug 2023
https://github.com/m-duteau/CS300-DSA
- Developed a binary search tree from scratch using C++, ensuring operations such as insertion, searching, and inorder traversal are efficiently handled and improved best case search time complexity from O(n) to O(log(n)) compared to Vector searching.
- Developed a function to read CSV files containing data that is used to populate the tree.
- Constructed a project document including pseudocode for Hash Table and Vector sorting, as well as justification for why a Binary Search Tree was the best solution for the given requirements.

PROJECTS

Portfolio Website using HTML, CSS, and JavaScript Sep 2024
https://github.com/m-duteau/html-css-js-portfolio-mduteau
https://mduteau-portfolio.vercel.app/
- Created a website with a simple but appealing aesthetic to display academic background, projects, and contact information using HTML and CSS.
- Constructed a JavaScript function in order to handle "hamburger" menu for mobile devices to enhance website navigation.
- Implemented CSS file mediaqueries.css in order to alter the appearance of the website based on the screen dimensions of the device being used, creating unique experiences for both desktop and mobile devices.